

Technical manual

Walraven Pacifyre® NCP Wrap

Pipe sealing system

Fire-resistant sealing system for non-combustible pipes, HVAC split line combinations and electrical installation conduits in connection with FEF and glass wool insulation.

Fire resistance class max. EI 120 in acc. with EN 13501-2 as per ETA 24/1117



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1. Preliminary remarks / overview

1.1 Target group

The installation instructions are intended solely for personnel trained in fire protection.

1.2 Use of the instructions

Before starting work, read through these installation instructions completely once. Pay particular attention to the following safety instructions.

The authorisation holder assumes no liability for damage caused by failure to comply with these instructions.

Pictorial representations serve as examples only. Installation results may differ in appearance.

Unless stated otherwise, all lengths are specified in mm.

Subject to errors, misprints and changes. All information contained in this brochure reflects the state of the art or, if applicable, the requirements of the pertinent standard at the time of printing (01/2025).

All information in this document represents the state of the art at the time of writing or the current version of the standard.

Upon request, Walraven will be pleased to provide the relevant legal and technical framework and manufacturer specifications for each individual case.

1.2.1 Safety instructions

Consult the respective safety information for the individual penetration seal components.

Personal protective equipment:



Wear protective clothing and non-slip shoes.



Use safety goggles, safety glasses.

Safety instructions for the installation of floor penetration seals:



The area below the floor penetration seal must be cordoned off against entry during penetration seal work (barrier tape and warning sign: warning of possible falling objects, do not enter the area, penetration seal work in floor openings).



The contractor for the production of floor penetration seals must inform the client in writing (for forwarding to the client or appointed representative) that after the production of the fire penetration seals in floors, these must be secured on site against loads, in particular against being stepped on, by suitable measures (e.g. by fencing or by covering with grating).

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1.3 Building elements

Plasterboard walls with steel substructure

In stud design and double-sided cladding with at least 2 layers of 12.5 mm cement or gypsum-bound building boards with a reaction to fire of class A1 or A2 in accordance with EN 13501-1.

The stud construction must be complemented by additional stems and transoms in such a way that they frame the aperture.

The walls must be classified with the required fire resistance rating in accordance with EN 13501-2.

Plasterboard walls with wood substructure

In stud design and double-sided cladding with at least 2 layers of 12.5 mm cement or gypsum-bound building boards with a reaction to fire of class A1 or A2 in accordance with EN 13501-1.

The distance between the opening and the studs and transoms must be ≥ 100 mm and the hollow spaces between the cladding of the wall, studs and transoms and the aperture must be tightly sealed to a depth of ≥ 100 mm with mineral wool, reaction to fire class A1 or A2 in accordance with EN 13501-1.

The walls must be classified for the required fire resistance rating in accordance with EN 13501-2.

Solid walls

Made of concrete, reinforced concrete or aerated concrete with a density of ≥ 350 kg/m³.

The walls must be classified for the required fire resistance rating in accordance with EN 13501-2.

Solid floors

Made of concrete, reinforced concrete or aerated concrete with a density of ≥ 500 –550 kg/m³.

The floors must be classified for the required fire resistance rating in accordance with EN 13501-2.

Timber walls

Made of cross-laminated timber (CLT).

The strength of the single laminated timber layers must at least conform to EN 338. The mass burning rate of the solid timber layers must at least conform to EN 1995-2.

The wall must be constructed in layers of at least the following thicknesses:

EI 90 $\geq$ 100 mm (3 layers: 30/40/30 mm)

EI 60 $\geq$ 100 mm (5 layers: 20/20/20/20/20 mm)

Timber floors

Made of cross-laminated timber (CLT).

The strength of the single laminated timber layers must at least conform to EN 338. The mass burning rate of the solid timber layers must at least conform to EN 1995-2.

The floor must be constructed in layers of at least the following thicknesses:

EI 90 $\geq$ 140 mm (5 layers 40/20/20/20/40 mm)

EI 60 $\geq$ 100 mm (5 layers 20/20/20/20/20 mm)

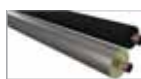
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2. Allowed services

For specific fire resistance classes and pipe end configurations depending on measurements and fire protection measures see the respective chapters on design variants starting on page 10.

2.1 Non-combustible pipes



Pipe material	Outer diameter [mm]	Pipe wall thickness [mm]
Copper, steel, stainless steel, cast iron	≤ 88.9	≥ 0.6
Steel, stainless steel, cast iron	≤ 323.9	≥ 0.6

2.2 Electrical installation conduits




Material	Configuration	Maximum diameter [mm]
Plastic	single	≤ 32 / ≤ 63 with or without cables
	bundled	≤ 100, conduit Ø ≤ 32 with or without cables
	multiple penetration	≤ 3 pcs., conduit Ø ≤ 32 with or without cables

2.3 Speedpipes



Configuration	Maximum diameter [mm]
single	≤ 14.0
bundled	≤ 50.0

2.4 HVAC split line combinations



Configuration
Copper pipe Ø 2 × 18 mm + 9 mm PE foam + 1 pipe PVC-U/PVC-C Ø ≤ 25.0 × 1.5 mm + ≤ 3 cables Ø ≤ 14.0 mm
Copper pipe Ø 2 × 22 mm + 9 mm PE foam + 1 pipe PVC-U Ø ≤ 25.0 + ≤ 2 cables Ø ≤ 21.0 mm

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2.5 Thicknesses, sizes and spacing

Dimensions				
	Plasterboard wall and solid wall [mm]	Solid floor [mm]	CLT wall [mm]	CLT floor [mm]
Thickness of building element	≥ 100	≥ 150	≥ 100	≥ 140
Thickness of penetration seal	≥ 100	≥ 150	≥ 100	≥ 140
Distance to other penetration seals	≥ 100	≥ 100	≥ 100	≥ 100
Distance to other apertures or installations	≥ 200	≥ 200	≥ 200	≥ 200

2.6 Initial supports

Penetrating services must be supported at the distances specified in the table below. In wall constructions support is required on both sides. In floor constructions support is required on the upper side of the floor. Essentials parts of the supports must be non-combustible.

Initial supports	Plasterboard wall, solid wall	Solid floor	CLT wall	CLT floor
Non-combustible pipes	≤ 500	≤ 500	≤ 700	≤ 500
Electrical installation conduits	≤ 250	≤ 250	–	–
Speedpipes	≤ 250	≤ 250	–	–
HVAC split line combinations	≤ 700	≤ 820	–	–
All specifications in mm				

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3. Included products

**Walraven Pacifyre® NCP Wrap**

Roll, 5 m × 125 mm
(separable into 2 × 62.5 mm)
– Art. no. 2136300050
Roll, 10 m × 125 mm
(separable into 2 × 62.5 mm)
– Art. no. 2136300100

**Walraven Pacifyre® MWB-A Coating**

5 kg pail – Art. no. 2139400005
12.5 kg pail – Art. no. 2139400001

**Walraven Pacifyre® MWB-A Filler**

310 ml cartridge – Art. no. 2139400003

**Walraven Pacifyre® FPM**

15 kg pail – Art. no. 2180015300

**Walraven Pacifyre® ID-card**

1 piece – Art. no. 2149999xxx

**Walraven Pacifyre® MWB**

Precoated board on one-or-both sides in various thicknesses.

1000x600x60 – Art. no. 2139400061
1000x600x60 – Art. no. 2139400062
1000x600x50 – Art. no. 2139400050
1000x600x80 – Art. no. 2139400080

**Mineral wool**

Class of reaction to fire in acc. with EN 13501-1: A1
Melting point ≥ 1000 °C

**Mineral fibre board
in acc. with EN 13162**

Class of reaction to fire A1 in acc. with EN 13501-1
Melting point ≥ 1000 °C
Thickness ≥ 50 mm

Recommended products

Rockwool Hardrock® 040
Rockwool RP-GF 70
PAROC Pyrotech Slab 160

Further recommended products

Knauf Insulation Power-teK LW STD
Rockwool ProRox LF 970

**General sealing material**

Dimensionally stable, non-combustible (class A1 or A2-s1,d0 in acc. with EN 13501-1) material such as concrete, cement mortar, gypsum mortar

**Lamella mat Klimarock**

in acc. with DIN EN 14303 and LE DE0628071802 of 13.07.2018
Class of fire behaviour in acc. with EN 13501-1: Class A1
Dimensions 610 × 50 cm, Thickness 30 mm
Roll, 3.05 m² – Art. no. 01187100
Other lamella mats, mineral fibre mats or pipe shells may be installed if they meet the following criteria:
EN 14303 bulk density ≥ 40 kg/m³
Fire behaviour class A1 in acc. with EN 13501-1
Thickness ≥ 30 mm

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**Section insulations made of flexible elastomeric foam (FEF)**

in acc. with EN 14304

Fire behaviour in acc. with EN 13501-1: B-s3, d0 or D-s1,d0

Name	Declaration of Performance
Armalok 50	Nr. 067-CPR-2021-104 in connection with ETA-20/0653 of 25.11.2020
Armalok 100	
ArmaFlex SE	0543-CPR-2022-111
ArmaFlex XG	0543-CPR-2013-002
AF/ArmaFlex	0543-CPR-2016-001
AF/ArmaFlex Evo	0543-CPR-2020-101
SH/ArmaFlex	0543-CPR-2013-013
NH/ArmaFlex	0543-CPR-2013-015
NH/ArmaFlex Smart	0543-CPR-2020-102
HT/ArmaFlex	0543-CPR-2013-019
ArmaFlex Ultima	0543-CPR-2016-017
Kaiflex HT s2	DoP HT s2 01032021001
Kaiflex KK	Kaiflex KK
Kaiflex KKplus s2	DoP KKplus s2 01092021001
Kaiflex KKplus s3	DoP KKplus s3 PL092021001
FLEXEN Heizungskautschuk s2	LE_5258006015_00_M_flexen®_Heizungskautschuk_Plus
FLEXEN Kältekautschuk Plus s2	LE_5258501006_00_S_flexen®_Kältekautschuk_Plus
isopren Plus	Isopren Plus 07052013001
isopren Polar Plus	Isopren Polar Plus 07052013001
K-FLEX ST	01010104201-CPR-13, 01050104201-CPR-16, 01100104201-CPR-16, 01040104201-CPR-16
K-FLEX ST PLUS	02010104201-CPR-16, 02010304201-CPR-13, 02050104201-CPR-16, 02040104201-CPR-13
K-FLEX ECO	05010105201-CPR-13, 04050105201-CPR-13; 04100104201-CPR-18, 04040104201-CPR-18, 04060102201-CPR-18

Name	Declaration of Performance
K-FLEX H	04010105201-CPR-13, 04050105201-CPR-13, 04100104201-CPR-18, 04040104201-CPR-18, 04060102201-CPR-18
Eurobatex	01/20190610
Eurobatex SC	35/20220202
Eurobatex High Technology	19/20220914
Eurobatex H	06/20180903
Eurobatex H Super	09/20171201
Eurobatex Glastec	18/20200702

**Section insulations made of PEF**

in acc. with EN 14313

Fire behaviour in acc. with EN 13501-1: E

Name	Declaration of Performance
KE KELIT LEXEL	DoP 001-113
Würth FLEXEN PE	LE_0870609015_00_M_flexen®_PE-Stabil
Steinbacher Steinoflex 400	DoP 140-04-02-0010-289.2
Steinbacher Steinoflex 410	DoP 140-04-02-0011-010.6

3.1 Declarations of Performance

The Declarations of Performance for the featured products are available for download on our website:

www.walraven.com/pacifyre

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4. Design

4.1 Fire resistance classes

Walraven Pacifyre® NCP Wrap meets the requirements of max. class EI 120 in acc. with EN 13501-2.

The fire resistance class of the sealing system is reduced to the fire resistance class of the installed service with the lowest fire resistance rating.

The fire resistance class of the sealing system is reduced to the maximum fire resistance class of the surrounding building element.

Building element	Fire resistance class
Plasterboard wall	max. EI 120
Solid wall	max. EI 120
Solid floor	max. EI 120
Timber wall (CLT)	max. EI 90
Timber floor (CLT)	max. EI 90

4.2 Pipe end configurations

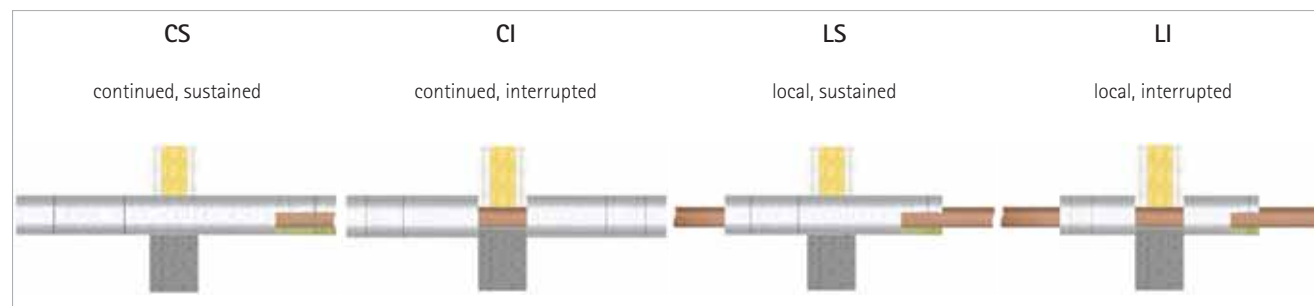
Non-combustible pipes				
tested	included configurations			
	U/U	U/C	C/U	C/C
U/U	✓	✓	✓	✓
U/C	-	✓	✓	✓
C/U	-	-	✓	✓
C/C	-	-	-	✓

4.3 Annular gap

The annular gap is filled with Walraven Pacifyre® MWB-A or general non-combustible sealing material such as concrete, cement mortar or gypsum mortar (Class A1 or A2-s1,d0 in acc. with EN 13501-1). Optionally the annular gap can be backfilled with loose mineral wool.

Dimensions				
	Plasterboard and solid wall [mm]	Solid floor [mm]	CLT wall [mm]	CLT floor [mm]
Annular gap width	≤ 50	≤ 50	≤ 25	≤ 25
Filling depth on each side	≥ 25	≥ 25	≥ 20	≥ 20

4.4 Pipe insulation configurations



Results for LS insulation are also applicable to CS insulation.

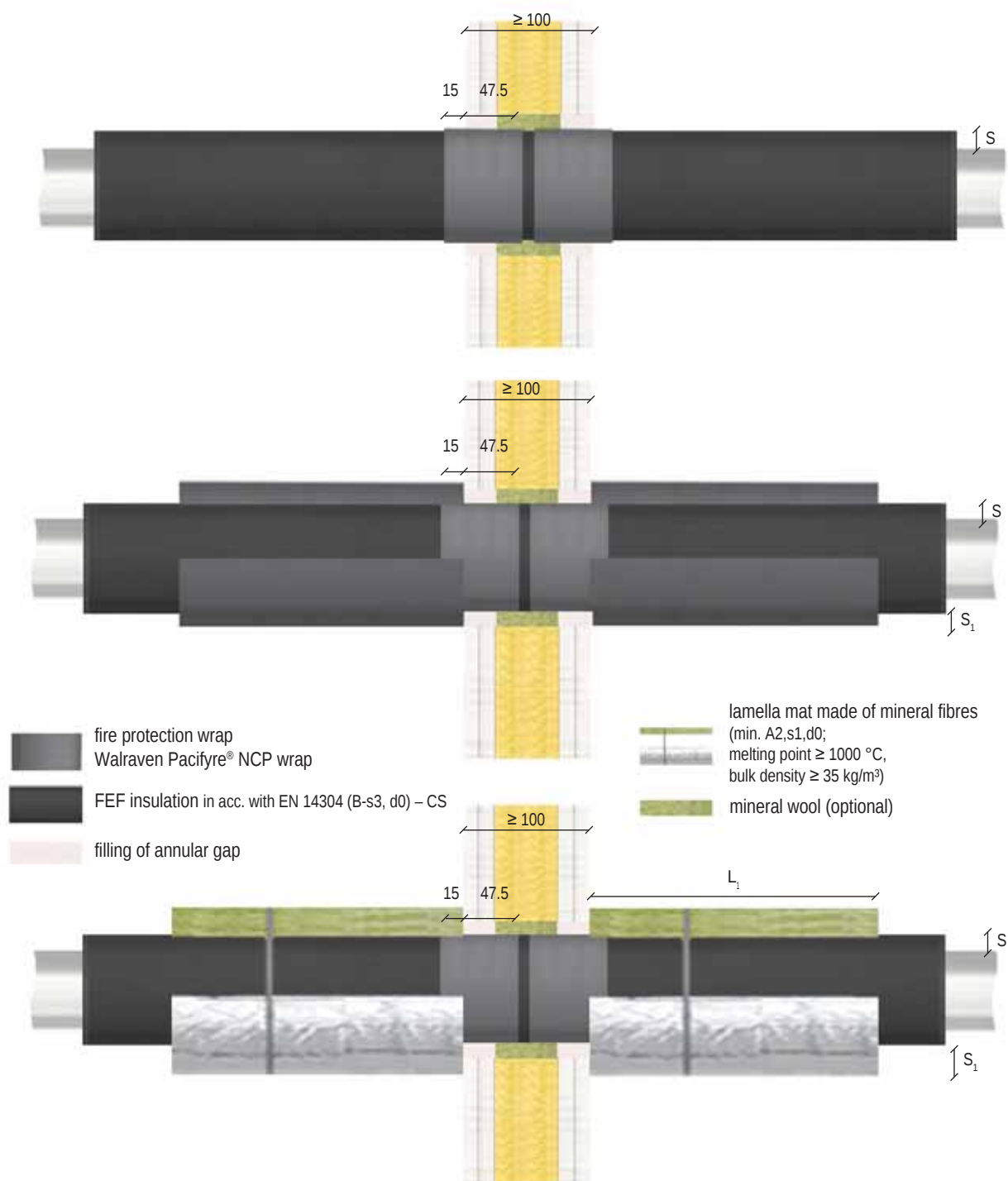
Results for LI insulation are also applicable to CI insulation.

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- 5. Fire protection measures
- 5.1 Non-combustible pipes
- 5.1.1 Single penetrations in plasterboard walls

Design with pipe insulation



For building element and seal thicknesses see page 6. For filling the annular gap see page 9.

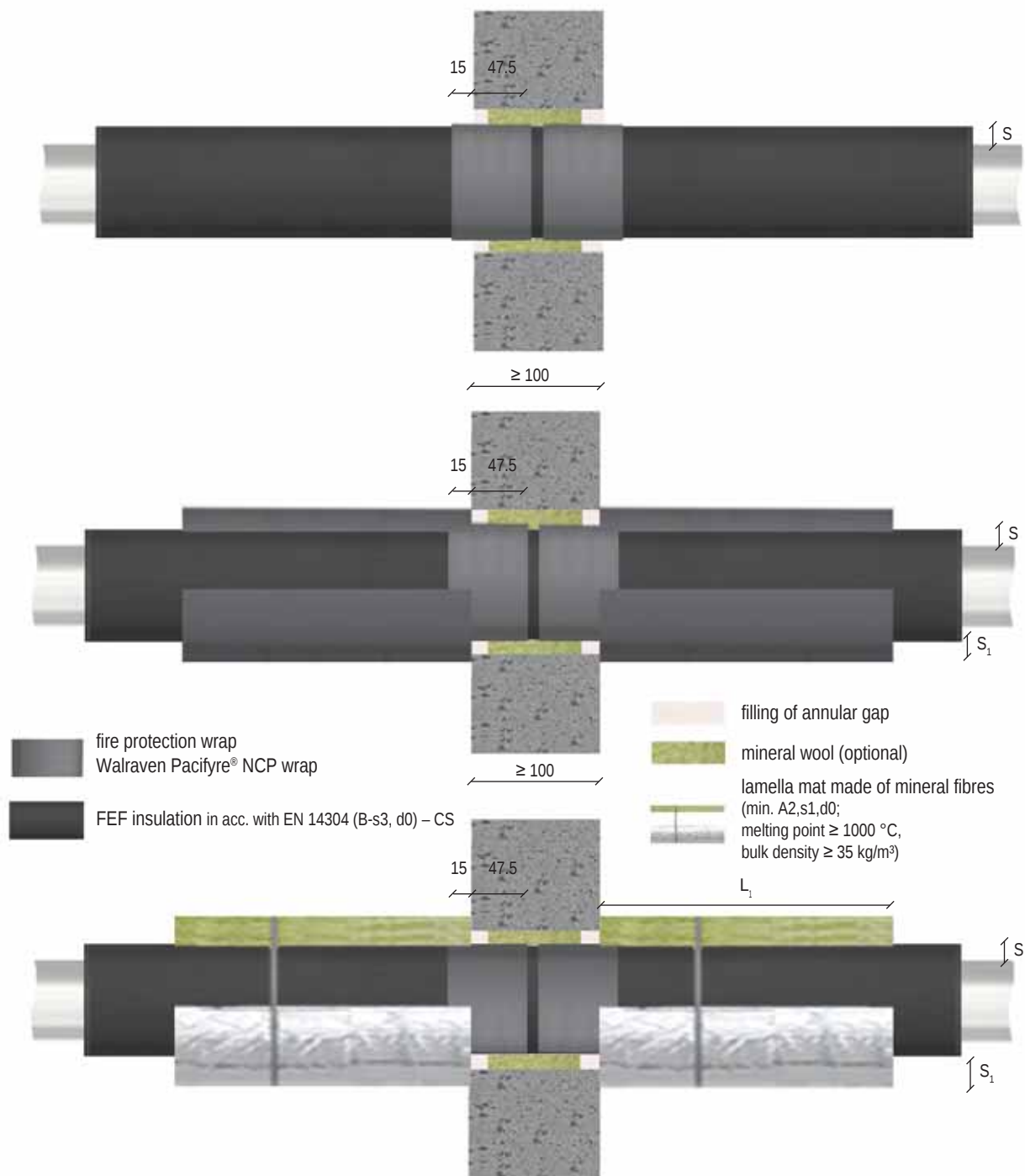
All specifications in mm

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Pipe			FEF section insulation	Protective insulation			Walraven Pacifyre® NCP wrap	Fire resistance class
Material	Outer diameter [mm]	Wall thickness [mm]	Insulation thickness S [mm]	Type	Insulation length L ₁ [mm]	Insulation thickness S ₁ [mm]	Number of layers	
Copper, steel, stainless steel, cast iron	≤ 15.0	0.8–14.2	10.0	–	–	–	1	EI 120 C/U
			10.0–38.0				2	
	> 15.0 – ≤ 54.0	19.0–38.0	2					
	> 54.0 – ≤ 88.9	1.5–14.2	25.0				2	
Steel, stainless steel, cast iron	> 15.0 – ≤ 88.9	0.8–14.2	19.0–38.0	FEF	250	19	2	
	> 88.9 – ≤ 114.3	2.0–14.2					2	
	> 114.3 – ≤ 159.0	3.2–14.2	25.0–38.0			38	2	
	> 159.0 – ≤ 219.1	4.0–14.2					2	
Copper, steel, stainless steel, cast iron	≤ 42.0	0.8–14.2	10.0	–	–	–	1	EI 90 C/U
	> 42.0 – ≤ 88.9	1.2–14.2	19.0–38.0				2	
Steel, stainless steel, cast iron	> 219.1 – ≤ 323.9	4.0–14.2	39.0–48.0	lamella mat	500	30	2	EI 60 C/U

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All specifications in mm

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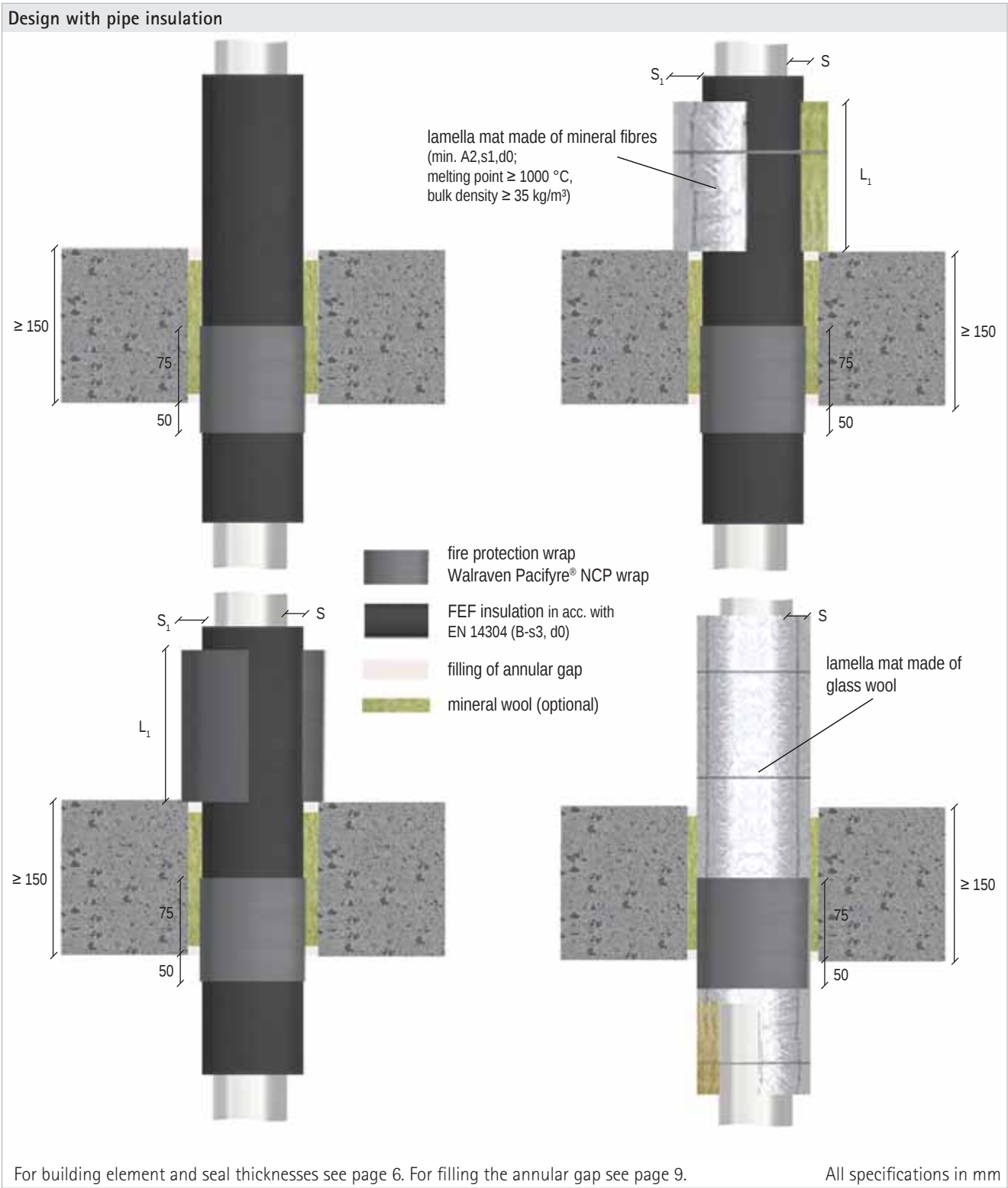
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Pipe			FEF section insulation	Protective insulation			Walraven Pacifyre® NCP wrap	Fire resistance class
Material	Outer diameter [mm]	Wall thickness [mm]	Insulation thickness S [mm]	Type	Insulation length L ₁ [mm]	Insulation thickness S ₁ [mm]	Number of layers	
Steel, stainless steel, cast iron	≤ 323.9	5.6–14.2	25.0	FEF	750	60	2	EI 120 C/U
			25.0–50.0				3	EI 120 C/U
			50.0				3	EI 120 C/U
				lamella mat			3	EI 120 C/U
	≤ 114.3	3.2–14.2	19.0	-	-	-	2	EI 90 C/U
	≤ 114.3	3.2–14.2	19.0–25.0				2	EI 60 C/U
	≤ 168.3	4.0–14.2	25.0				2	EI 60 C/U
			50.0				3	EI 60 C/U

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5.1.3 Single penetrations in solid floors



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Pipe			Section insulation		Protective insulation			Walraven Pacifyre® NCP wrap	Fire resistance class
Material	Outer diameter [mm]	Wall thickness [mm]	Type	Insulation thickness S [mm]	Type	Insulation length L ₁ [mm]	Insulation thickness S ₁ [mm]	Number of layers	
Copper, steel, stainless steel, cast iron	≤ 60	0.6–14.2	FEF	13.0–40.0	–	–	–	2	EI 120 C/U
	> 60.0 – ≤ 88.9	1.5–14.2		25.0	–	–	–	2	
	≤ 54.0		glass wool	20.0–50.0	–	–	–	2	
	≤ 88.9	2.0–14.2		40.0	–	–	–	2	
				80.0	–	–	–	3	
				100.0	–	–	–	4	
Steel, stainless steel, cast iron	≤ 108.0	2.0–14.2	FEF	19.0–39.0	–	–	–	2	
	≤ 219.1	4.5–14.2		19.0–26.0	lamella mat	500	60	2	
	≤ 273.0	5.0–14.2				25.0–26.0	750	60	
	≤ 323.9	5.6–14.2		25.0	FEF	750	60	2	
				25.0–50.0				3	
Copper, steel, stainless steel, cast iron	≤ 42.0	0.6–14.2	FEF	10.0	–	–	–	1	EI 90 C/U
				9.0–40.0	–	–	–	2	
	> 42.0 – ≤ 60.0	1.2–14.2		13.0–40.0	–	–	–	2	
	> 60.0 – ≤ 88.9	1.5–14.2		19.0–38.0	–	–	–	2	
Steel, stainless steel, cast iron	≤ 114.3	3.2–14.2		13.0–40.0	–	–	–	2	
	≤ 159.0	0.6–14.2		25.0–38.0	FEF	250	25	2	
	> 159.0 – ≤ 219.1	4.0–14.2				250	38	2	
	≤ 219.1	4.5–15.2	glass wool	60.0	–	–	–	3	
	≤ 323.9	5.6–14.2		100.0	–	–	–	4	

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5.1.4 Single penetrations in timber walls

Design with pipe insulation

fire protection wrap
Walraven Pacifyre® NCP wrap

FEF insulation in acc. with EN 14304 (B-s3, d0) – CS

filling of annular gap

mineral wool (optional)

For building element and seal thicknesses see page 6. For filling the annular gap see page 9. All specifications in mm

Non-combustible pipes with section insulation made of FEF					
Pipe			Section insulation	Walraven Pacifyre® NCP wrap	Fire resistance class
Material	Outer diameter [mm]	Wall thickness [mm]	Insulation thickness S [mm]	Number of layers	
Copper, steel, stainless steel, cast iron	≤ 28.0	1.0–14.2	9.0–19.0	2	EI 90 C/U
	≤ 60.0	0.6–14.2	9.0–21.0	2	EI 60 C/U
Steel, stainless steel, cast iron	≤ 110.0	1.0–14.2	9.0–23.0	2	

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5.1.5 Single penetrations in timber floors

Design with pipe insulation

fire protection wrap
Walraven Pacifyre® NCP wrap

FEF insulation in acc. with
EN 14304 (B-s3, d0) – CS

filling of annular gap

mineral wool (optional)

For building element and seal thicknesses see page 6. For filling the annular gap see page 9. All specifications in mm

Non-combustible pipes with section insulation made of FEF					
Pipe			Section insulation	Walraven Pacifyre® NCP wrap	Fire resistance class
Material	Outer diameter [mm]	Wall thickness [mm]	Insulation thickness S [mm]	Number of layers	
Copper, steel, stainless steel, cast iron	≤ 54.0	1.0–14.2	9.0–21.0	2	EI 90 C/U
Steel, stainless steel, cast iron	> 54.0 – ≤ 110.0		23.0	2	EI 90 C/U
	≤ 110.0		9.0–23.0	2	EI 60 C/U

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5.2 Electrical installation conduits

Electrical installation conduits can be installed with or without cables (cable Ø ≤ 21 mm).

Design for wall and floor penetration seals

fire protection wrap

Walraven Pacifyre® NCP wrap

 filling of annular gap

mineral wool (optional)

For building element and seal thicknesses see page 6. For filling the annular gap see page 9. All specifications in mm

Electrical installation conduits made of plastic				
Configuration	Outer diameter [mm]	Walraven Pacifyre® NCP wrap	Fire resistance class	
		Number of layers	Wall	Floor
Single	≤ 32.0	1	EI 120 U/U	EI 120 U/U
	≤ 63.0	2		
Bundled (single Ø ≤ 32 mm)	≤ 100.0	2		
Multiple linear penetration	≤ 3 × ≤ 32	1		

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5.3 Speedpipes

Design for wall and floor penetration seals

15 47.5

≥ 100

75 50

≥ 150

fire protection wrap
Walraven Pacifyre® NCP wrap

filling of annular gap

mineral wool (optional)

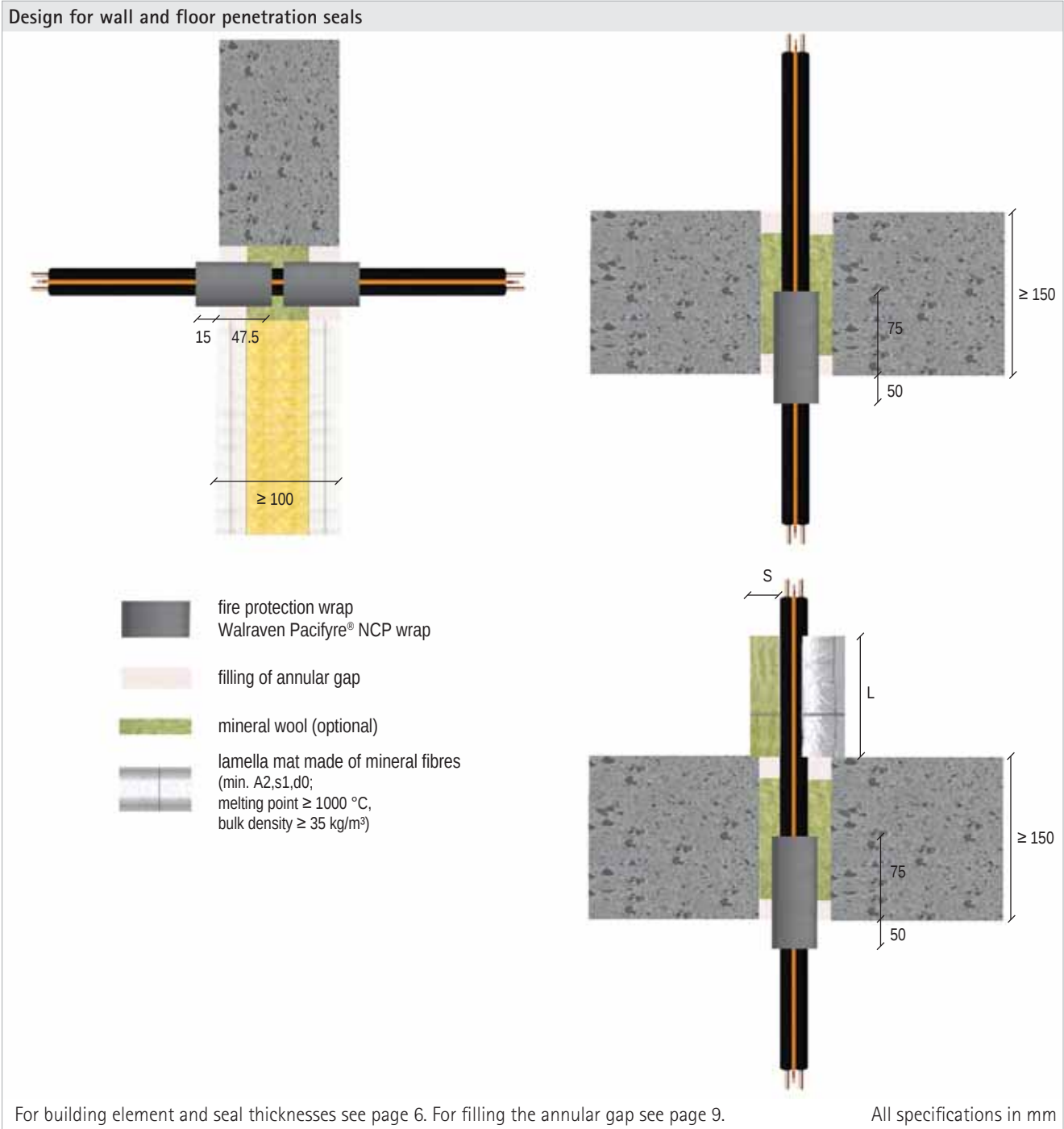
For building element and seal thicknesses see page 6. For filling the annular gap see page 9. All specifications in mm

Speedpipes				
Configuration	Outer diameter [mm]	Walraven Pacifyre® NCP wrap	Fire resistance class	
		Number of layers	Wall	Floor
Single	≤ 14.0	1	EI 120 U/U	EI 120 U/U
Bundled	≤ 50.0	1		

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5.4 HVAC split line combinations



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HVAC split line combinations					
Configuration	Walraven Pacifyre® NCP wrap	Protective insulation made of lamella mat		Fire resistance class	
	Number of layers	Length L [mm]	Thickness S [mm]	Wall	Floor
Copper pipe Ø 2 × 18 mm + 9 mm PE foam + 1 pipe PVC-U/PVC-C Ø ≤ 25.0 × 1.5 mm + ≤ 3 cables Ø ≤ 14.0 mm	2	–	–	EI 120	EI 120
Copper pipe Ø 2 × 22 mm + 9 mm PE foam + 1 pipe PVC-U Ø ≤ 25.0 + ≤ 2 cables Ø ≤ 21.0 mm	2	250	30	–	EI 90

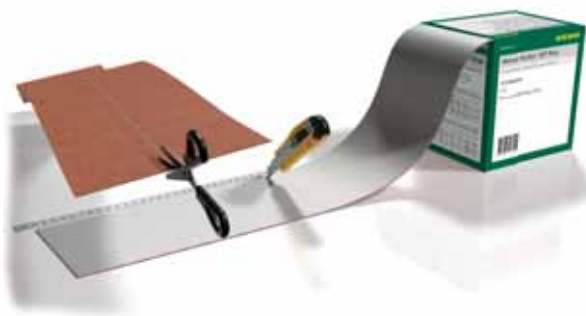
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6. Installation steps

6.1 Wall installation

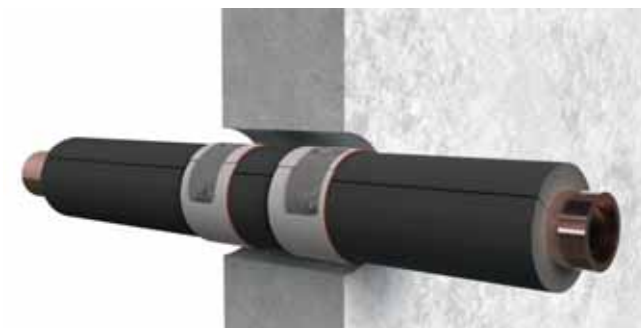
1. The fire protection wrap is pre-slit lengthwise. Cut wrap to length and separate it with a cutter knife or scissors along the pre-cut line in the middle.



2. Insert the wrap halves on each side of the wall in such a way that 15 mm (rule width) protrude from the building element.



3. Fasten the wrap with adhesive tape.



4. Seal the annular gap, for example with:
– Walraven Pacifyre® FPM, concrete, cement mortar or gypsum
– mineral wool + Walraven Pacifyre® MWB-A.



5. If required, label the penetration seal. Fill out the label neatly and attach it firmly next to/above (not on) the penetration seal.



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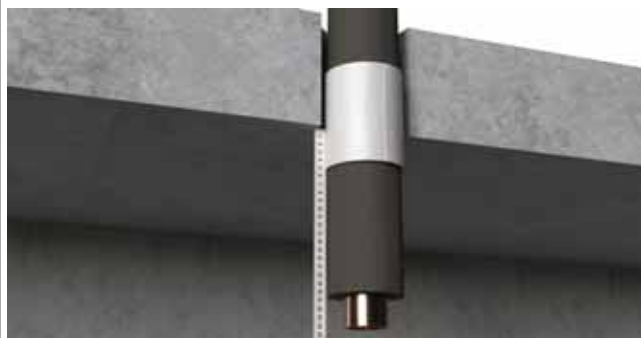
Walraven Pacifyre® NCP Wrap

6.2 Floor installation

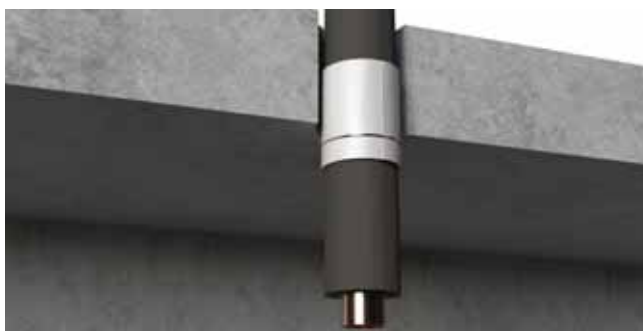
1. When installing in floors, do not separate the wrap.



2. Install one full width wrap on the underside of the floor in such a way that 50 mm protrude from the building element. It is not necessary to install a wrap on the upper side of the floor.



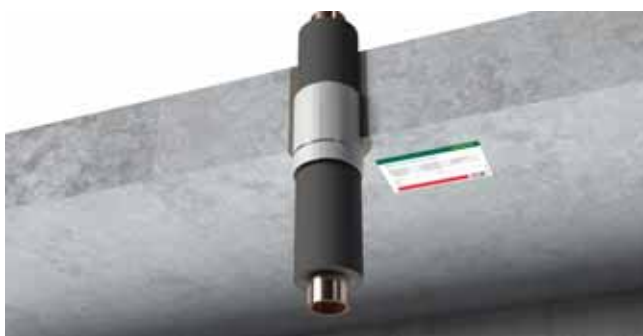
3. Fasten the wrap with at least one piece of winding wire (s $\geq$ 0.6 mm) below the floor.



4. Seal the annular gap, for example with:
– Walraven Pacifyre® FPM, concrete, cement mortar or gypsum
– mineral wool + Walraven Pacifyre® MWB-A.



5. If required, label the penetration seal. Fill out the label neatly and attach it firmly next to/above (not on) the penetration seal.



Find out how we can support you

Would you like to find out more about any of the solutions described in this technical manual?
Or would you like to discuss how we could help you find the best possible solution for your project?
Get in touch today!

Technical manual Walraven Pacifyre® NCP Wrap (EN-INT) – 01/2025 – PDF – Full content subject to modifications
*The technical data are non-binding and do not reflect the warranty characteristics of the products. They are subject to change. Please consult our General Terms and Conditions. Additional information is available upon request. It is the designer's responsibility to select products suitable for the intended purpose and to ensure that performance data are not exceeded. The installation instructions should always be read and followed.

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